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New U.S. Patent Application Amdt. dated <u>January 5, 2004</u>

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original) A side pumping type DPSS laser, comprising:
 - a first laser chip for generating a pumping light;
- a second laser chip, although being parallel with the first laser chip, slightly slanted to a predetermined degree so as to avoid a contact with the pumping light;
 - a first and second focusing lens for focusing the pumping lights; and
- a side pumping medium for forming the focused pumping lights in a beam mode so as to output as a lasing light.
- 2. (Original) The side pumping type DPSS laser of claim 1, wherein the side pumping medium comprises:
 - a laser material manufactured in a plate type;
- a sapphire plate formed at both sides of the laser material and having an AR coating and HR coating alternatively provided on each side of the laser material;
- a copper block provided at a top of the sapphire plate for fixing the sapphire plate and transmitting heat to outside;

HR coating formed on a rear surface of the side pumping medium for reflecting radiated lasing light; and

PR coating formed on a front surface of the side pumping medium for transmitting a part of the lasing light.

- 3. (Original) The side pumping type DPSS laser of claim 2, further comprises a stop coating formed between the PR coating and the laser material for filtering all the pumping light, and a middle portion thereof is removed for filtering all lights except a light in a pumping light lasing mode.
- 4. (Original) The side pumping type DPSS laser of claim 2, wherein a width of the laser material is in a beam waist size of the lased laser.
- 5. (Original) The side pumping type DPSS laser of claim 2, wherein a doping amount of the laser material is a value of the pumping light radiated to and absorbed by the laser material after being transmitted through the laser material.
- 6. (Original) The side pumping type DPSS laser of claim 1, wherein perpendicular component of the light radiated to the predetermined surface is focused and parallel component thereof is proceeded parallel.

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7. (Original) The side pumping type DPSS laser, comprising:

a first pumping laser diode (LD) generating a plurality of pumping lights;

a second pumping laser diode (LD) provided to be slightly slanted such that the pumping lights are not in contact with each other although being parallel around the side pumping medium;

a first and second focusing lens array having a plurality of focusing lens for focusing a plurality of the pumping lights; and

a side pumping assembly forming the focused pumping lights in a beam mode so as to output as a lasing light.

- 8. (Currently Amended) The side pumping type DPSS laser of claim [[8]] 7, further comprises a stop coating formed between the PR coating and the laser material for filtering all the pumping light, and a middle portion thereof is removed for filtering all lights except a light in a pumping light lasing mode.
- 9. (Original) The side pumping type DPSS laser of claim 8, wherein a doping amount of the laser material is a value of the pumping light radiated to and absorbed by the laser material after being transmitted through the laser material.

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- 10. (Original) The side pumping type DPSS laser of claim 8, wherein a width of the laser material is in a beam waist size of the lased laser
- 11. (Original) The side pumping type DPSS laser of claim 8, wherein a doping amount of the laser material is a value of the pumping light radiated to and absorbed by the laser material after being transmitted through the laser material.
- 12. (Original) The side pumping type DPSS laser of claim 7, wherein the focusing lens array focus perpendicular component light radiated to a predetermined surface and proceeds parallel component light parallel.